

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of the claims.

Listing of Claims:

- 1-25. (canceled)
26. (new) An isolated antibody or fragment thereof that specifically binds to an Ependymin polypeptide selected from the group consisting of:
- (a) an Ependymin polypeptide whose amino acid sequence consists of amino acid residues -37 to +187 of SEQ ID NO:2;
 - (b) an Ependymin polypeptide whose amino acid sequence consists of amino acid residues 1 to +187 of SEQ ID NO:2;
 - (c) an Ependymin polypeptide whose amino acid sequence consists of the full-length polypeptide encoded by the cDNA in ATCC Deposit No. 209464; and
 - (d) an Ependymin polypeptide whose amino acid sequence consists of the mature polypeptide encoded by the cDNA in ATCC Deposit No. 209464.
27. (new) The antibody or fragment thereof of claim 26 that specifically binds the Ependymin polypeptide of (a).
28. (new) The antibody or fragment thereof of claim 26 that specifically binds the Ependymin polypeptide of (b).
29. (new) The antibody or fragment thereof of claim 26 that specifically binds the Ependymin polypeptide of (c).
30. (new) The antibody or fragment thereof of claim 26 that specifically binds the Ependymin polypeptide of (d).
31. (new) The antibody or fragment thereof of claim 26 wherein said antibody or fragment thereof is monoclonal.

32. (new) The antibody or fragment thereof of claim 26 wherein said antibody or fragment thereof is polyclonal or chimeric.

33. (new) The antibody or fragment thereof of claim 26 wherein said antibody or fragment thereof is a Fab fragment.

34. (new) The antibody or fragment thereof of claim 26 which is labeled.

35. (new) The antibody or fragment thereof of claim 26 wherein said antibody or fragment thereof specifically binds to said polypeptide in a Western blot or ELISA.

36. (new) An isolated cell that produces the antibody or fragment thereof of claim 26.

37. (new) A hybridoma that produces the antibody or fragment thereof of claim 26.

38. (new) A method of detecting an Ependymin polypeptide in a biological sample comprising:

(a) contacting the biological sample with the antibody or fragment thereof of claim 26;

(b) allowing a complex to form between said Ependymin polypeptide and said antibody; and

(c) detecting said complex.

39. (new) An isolated antibody or fragment thereof that specifically binds to an Ependymin polypeptide selected from the group consisting of:

(a) a polypeptide whose amino acid sequence consists of a fragment of SEQ ID NO:2, wherein said fragment is at least 30 contiguous amino acid residues of SEQ ID NO:2 in length;

(b) a polypeptide whose amino acid sequence consists of a fragment of SEQ ID NO:2, wherein said fragment is at least 50 contiguous amino acid residues of SEQ ID NO:2 in length;

(c) a polypeptide whose amino acid sequence consists of a fragment of the Ependymin polypeptide encoded by the cDNA contained in ATCC Deposit No. 209464, wherein said fragment is at least 30 contiguous amino acid residues in length; and

(d) a polypeptide whose amino acid sequence consists of a fragment of the Ependymin polypeptide encoded by the cDNA in ATCC Deposit No. 209464, wherein said fragment is at least 50 contiguous amino acid residues in length.

40. (new) The antibody or fragment thereof of claim 39 wherein said antibody or fragment thereof is monoclonal.

41. (new) The antibody or fragment thereof of claim 39 wherein said antibody or fragment thereof is polyclonal or chimeric.

42. (new) The antibody or fragment thereof of claim 39 which is a Fab fragment.

43. (new) The antibody or fragment thereof of claim 39 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot or ELISA.

44. (new) An isolated antibody or fragment thereof that specifically binds a Ependymin protein purified from a cell culture wherein said protein is encoded by a polynucleotide encoding amino acids -37 to +187 of SEQ ID NO:2.

45. (new) The antibody or fragment thereof of claim 44 wherein said antibody or fragment thereof is monoclonal.

46. (new) The antibody or fragment thereof of claim 44 wherein said antibody or fragment thereof is polyclonal or chimeric.

47. (new) The antibody or fragment thereof of claim 44 which is a Fab fragment.

48. (new) The antibody or fragment thereof of claim 44 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot or ELISA.